

FIG. 1

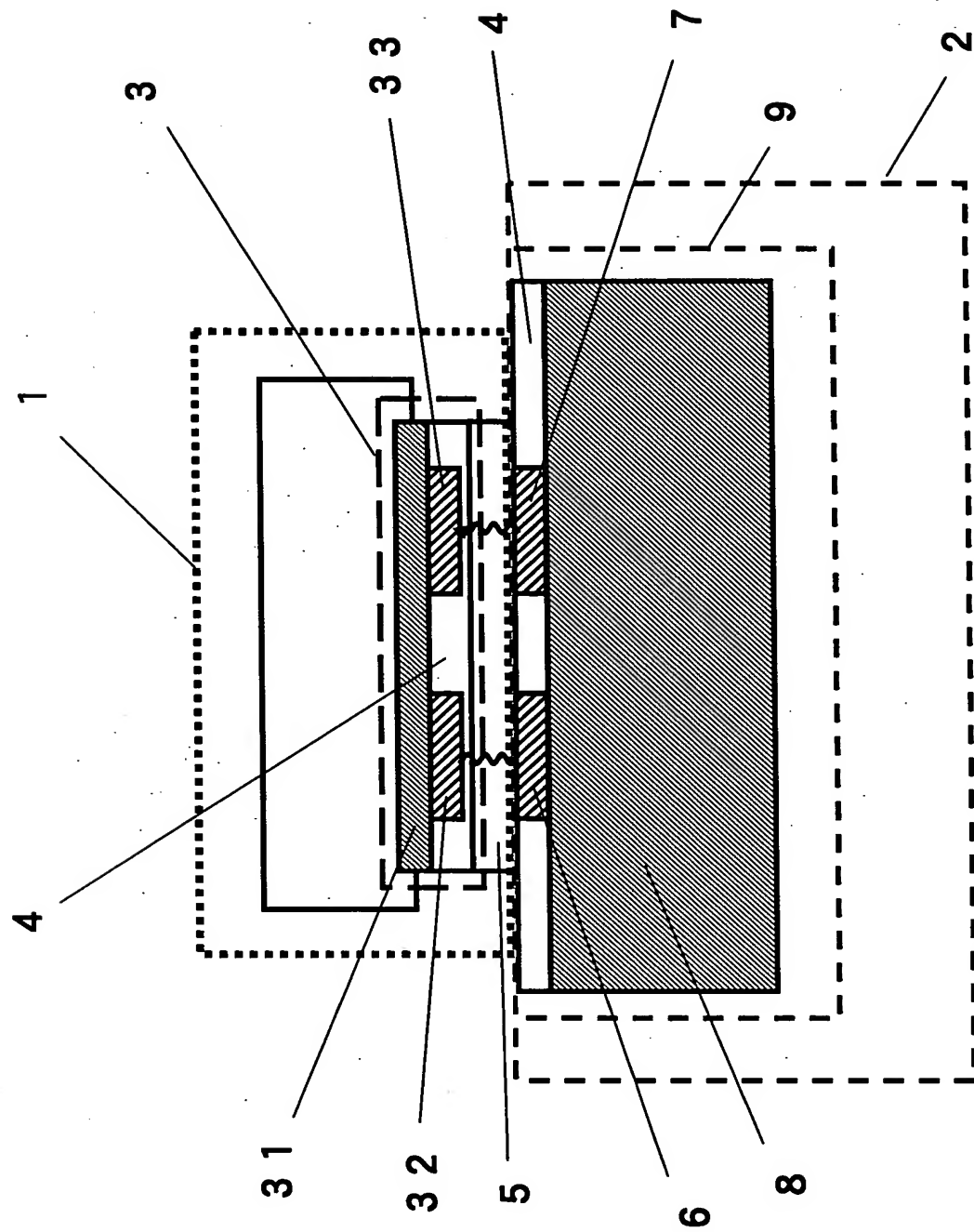


FIG. 2

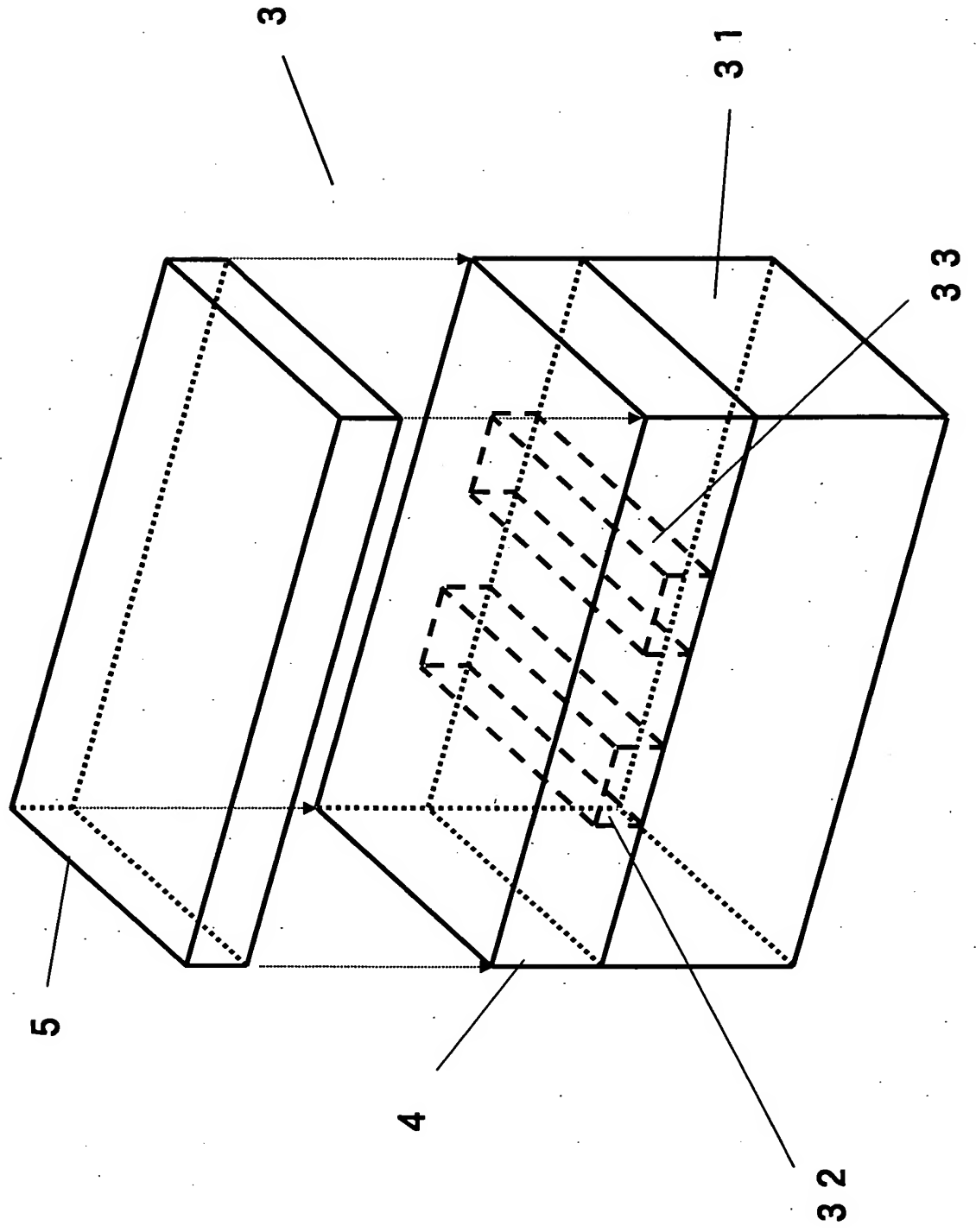


FIG. 3

2 DETERIORATION DETECTOR

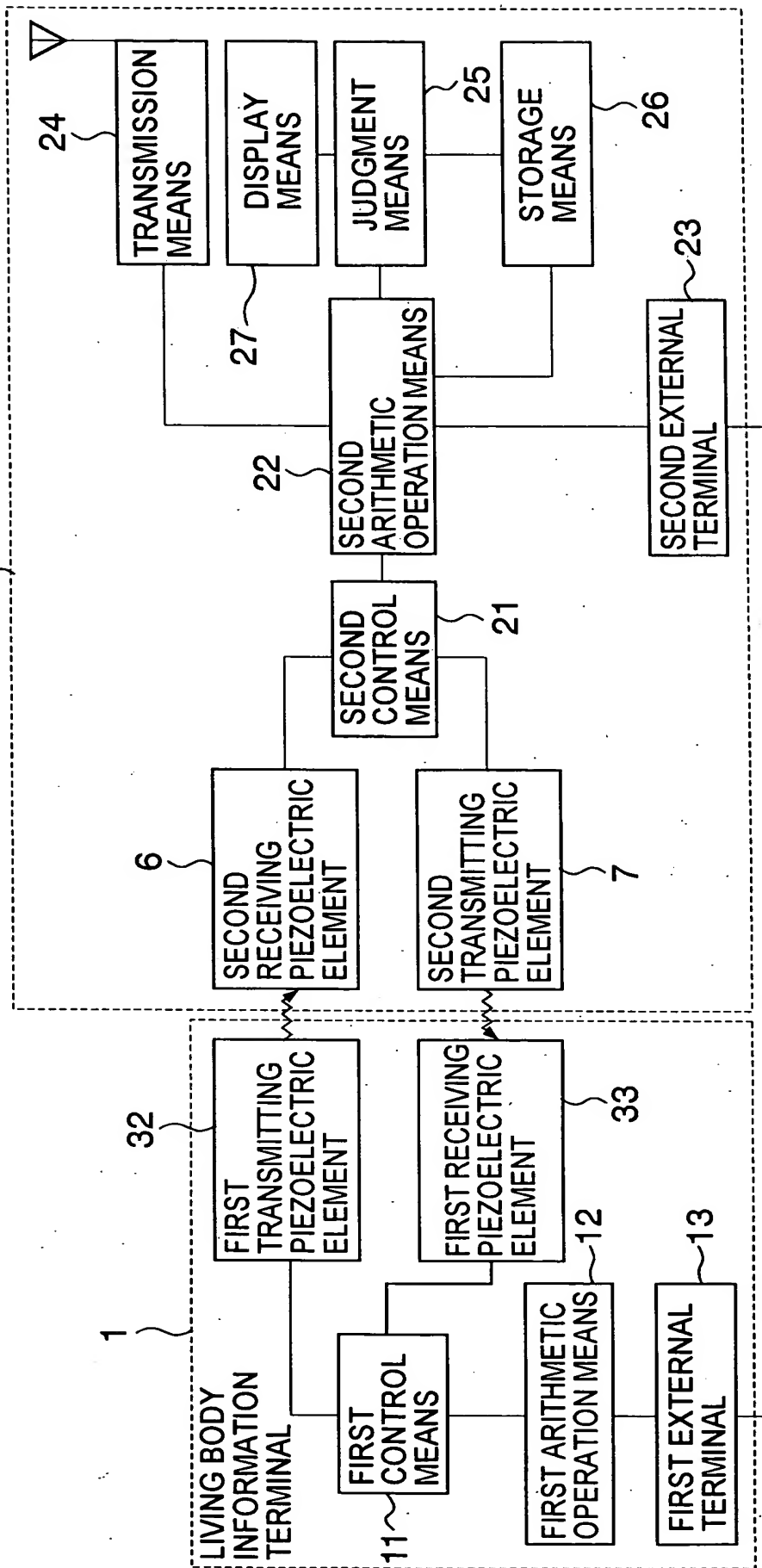
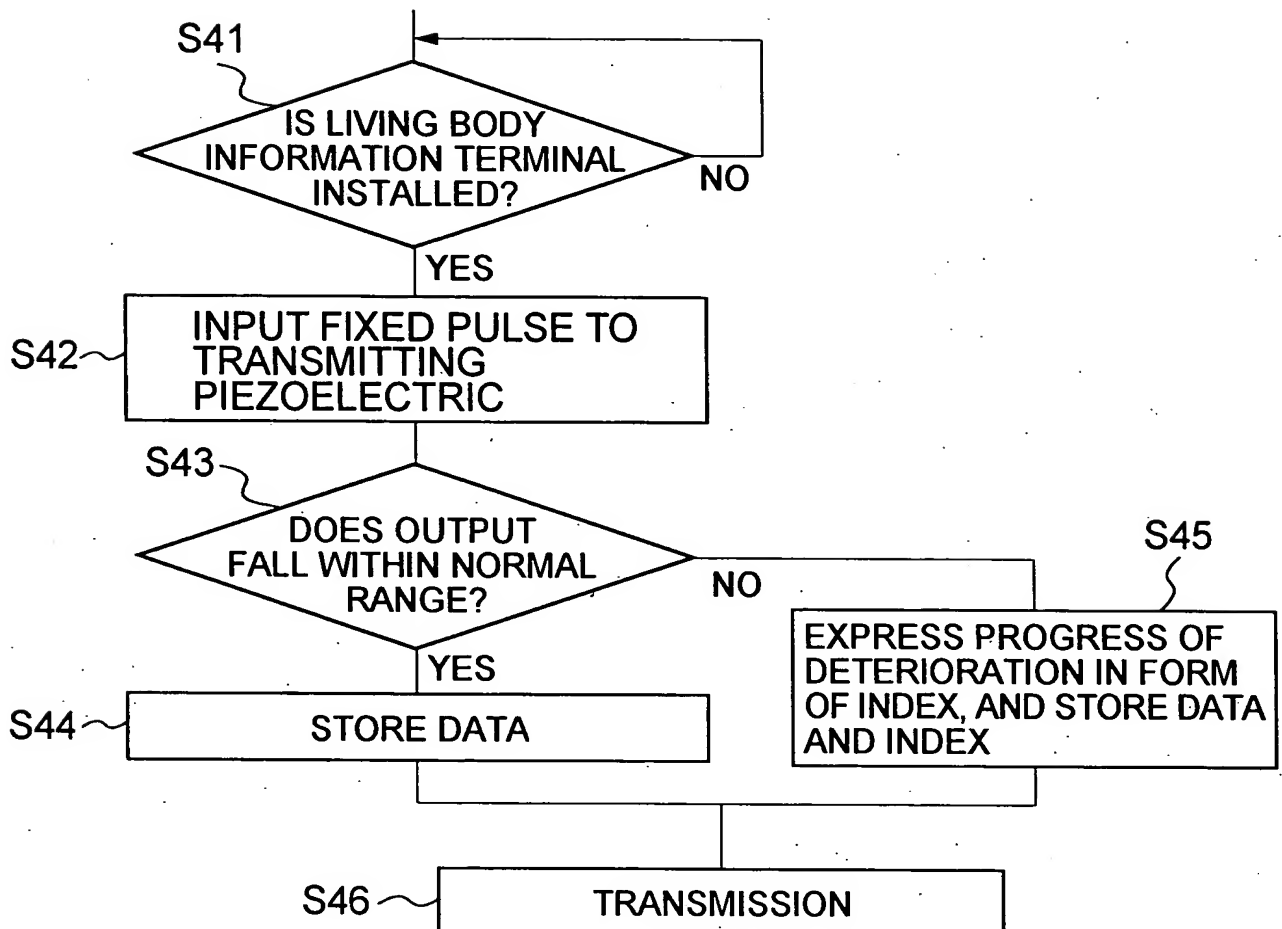


FIG. 4



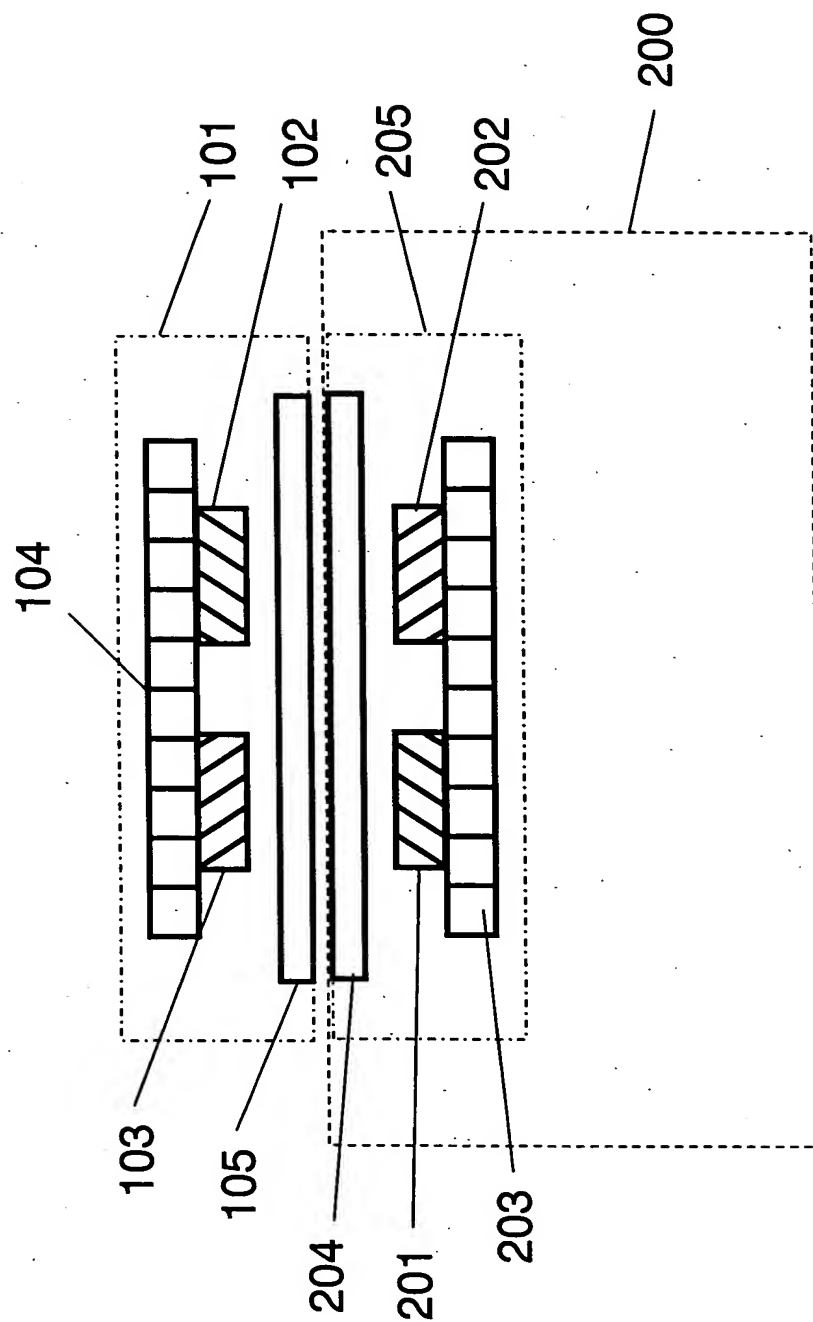


FIG. 5

FIG. 6

200 DETERIORATION DETECTOR

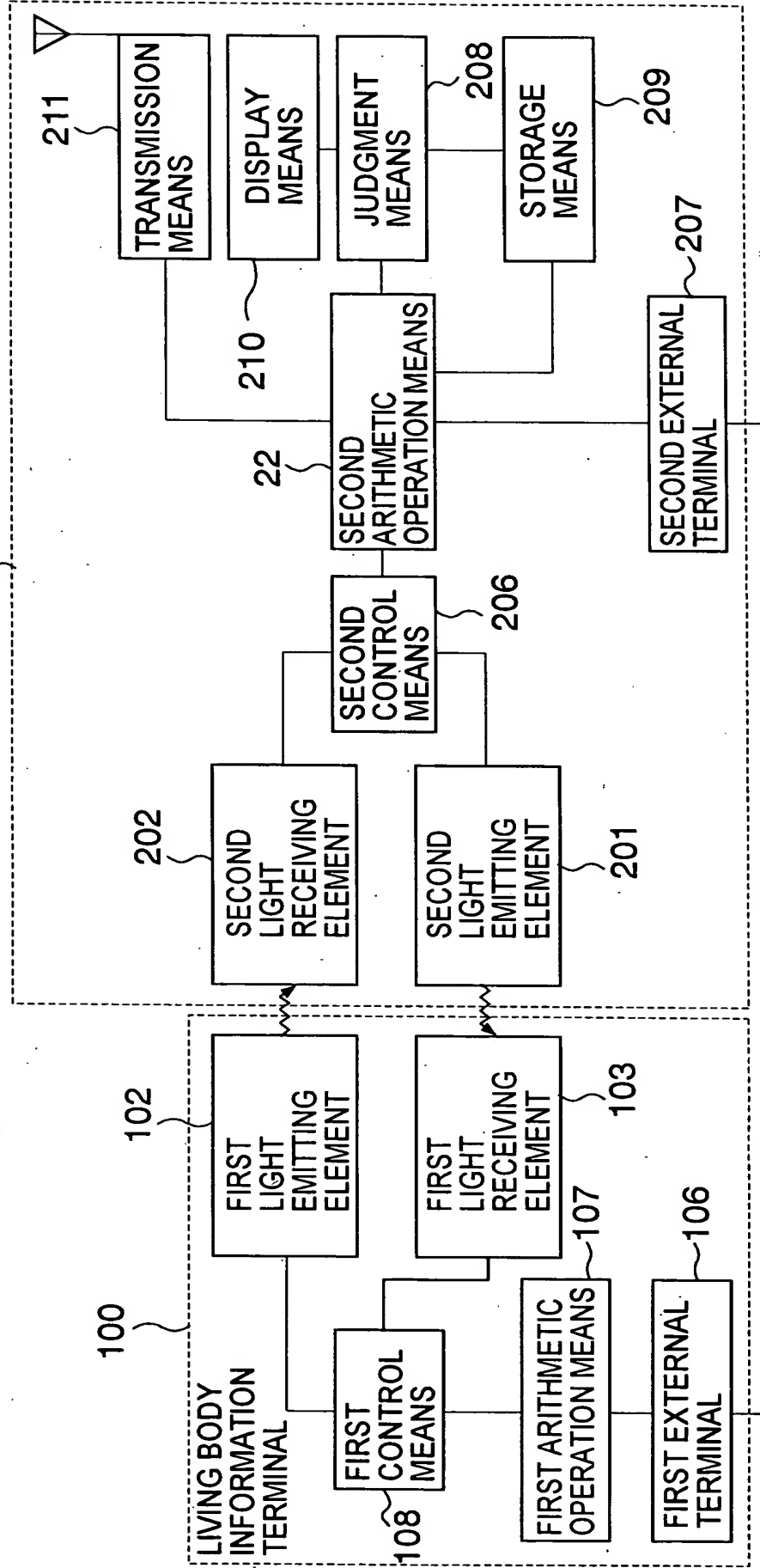
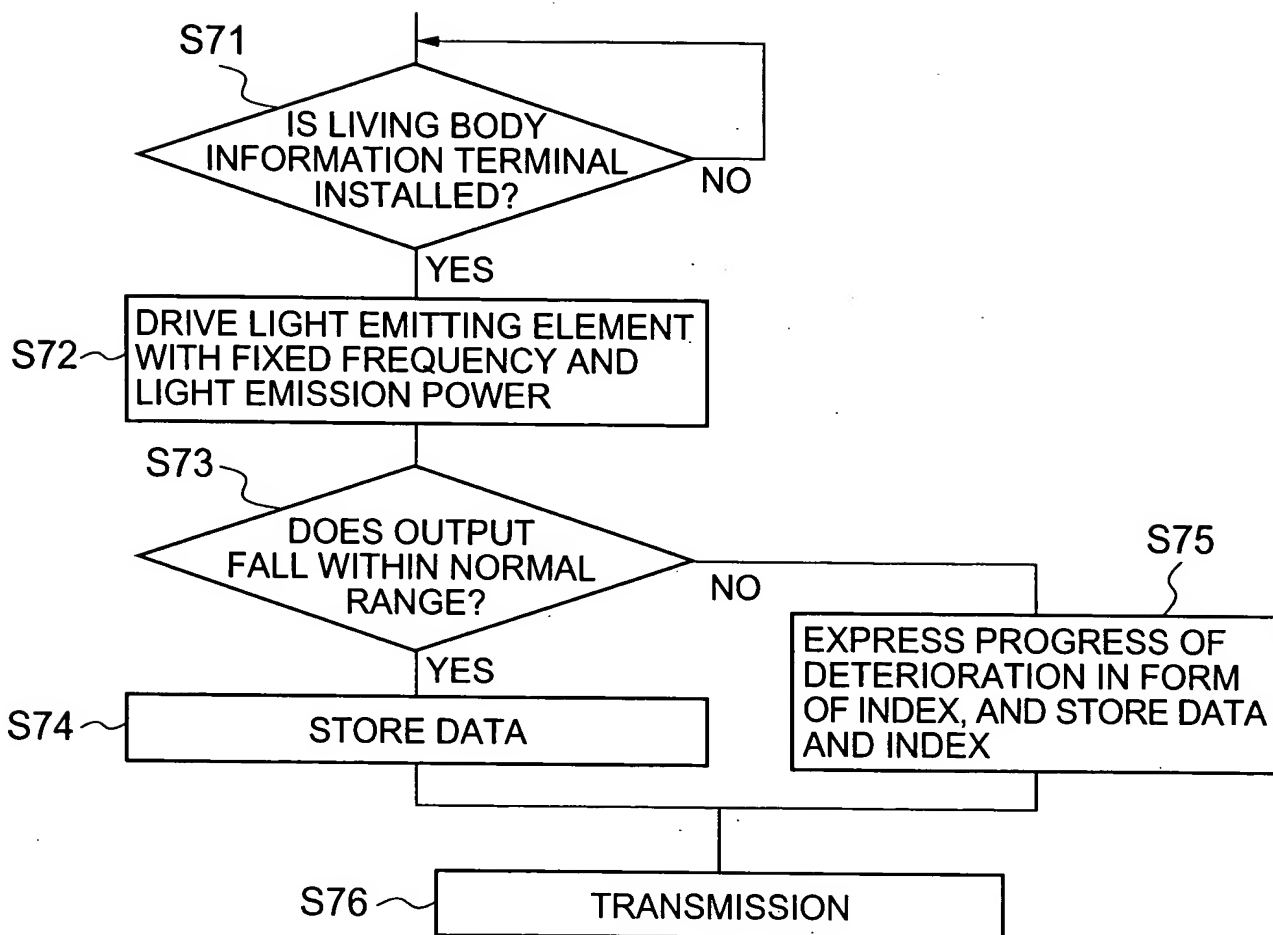


FIG. 7



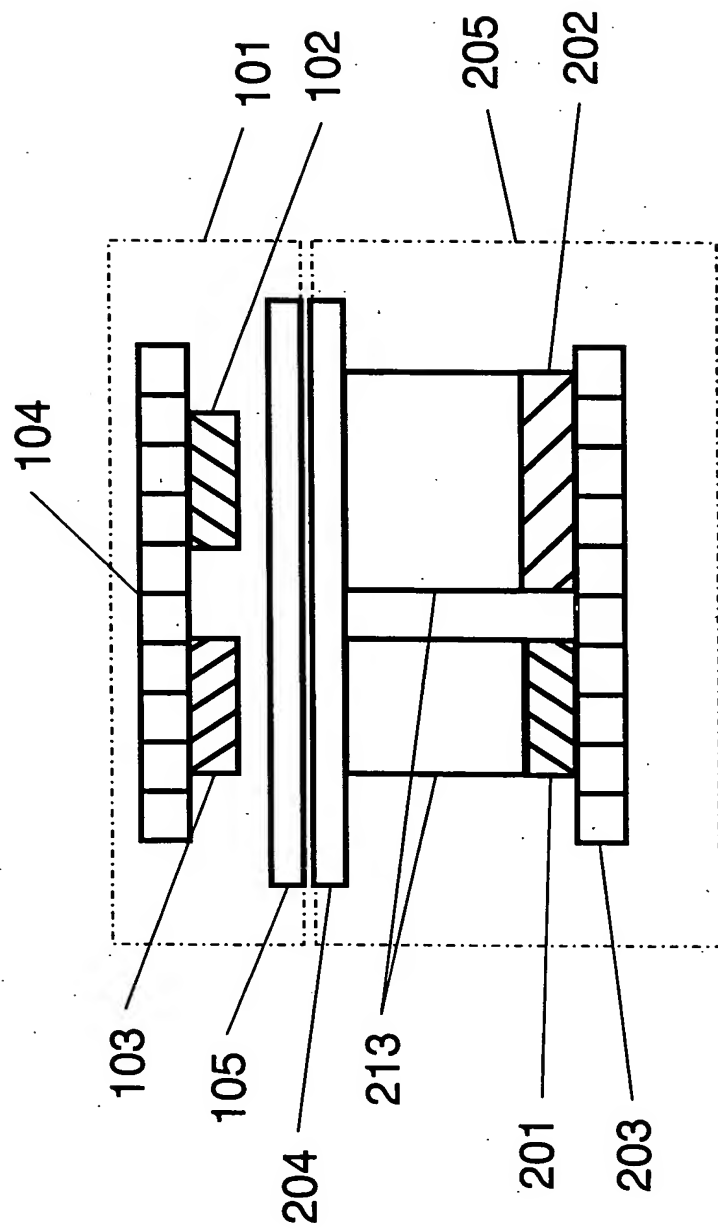


FIG. 8



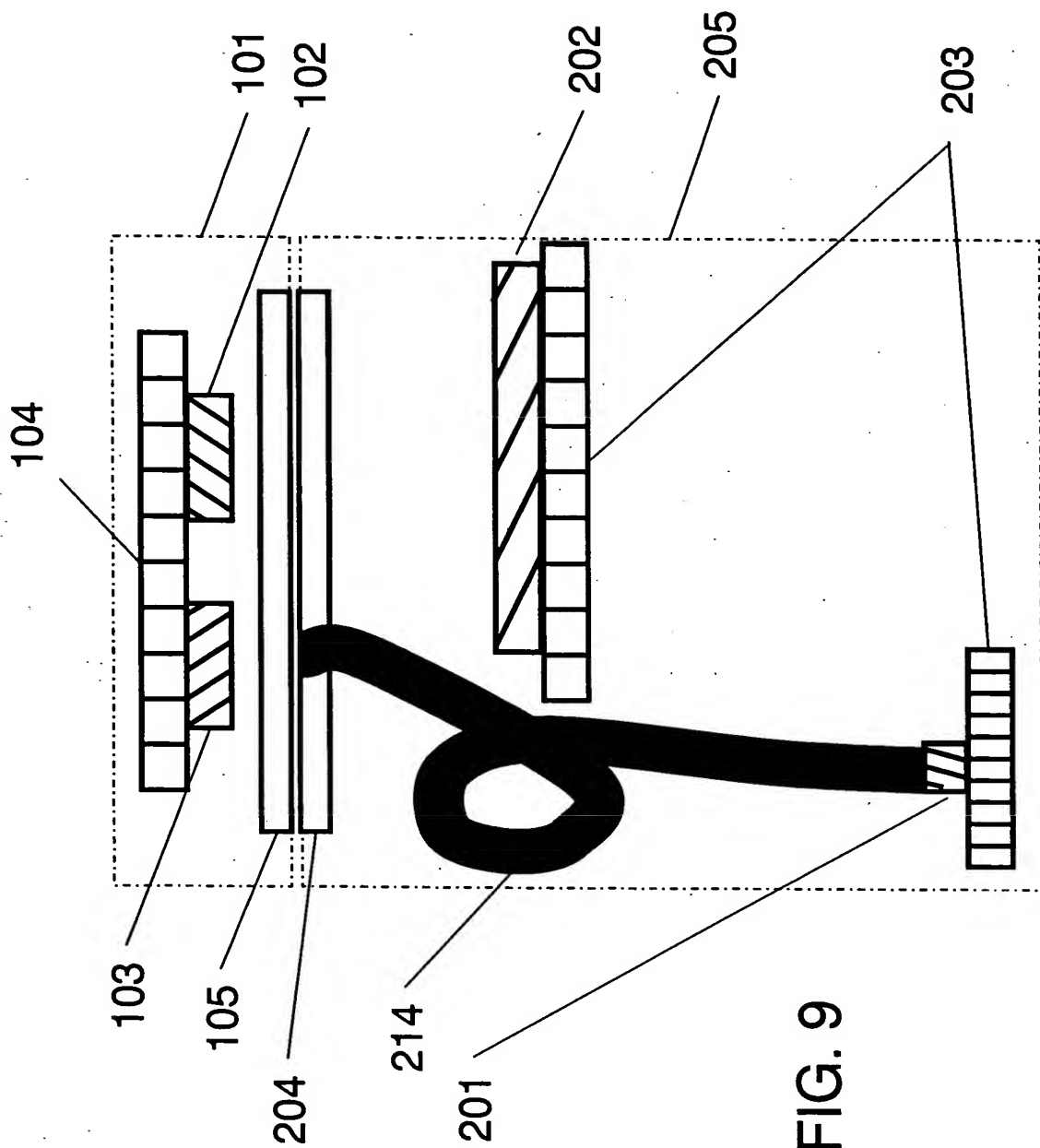


FIG. 9

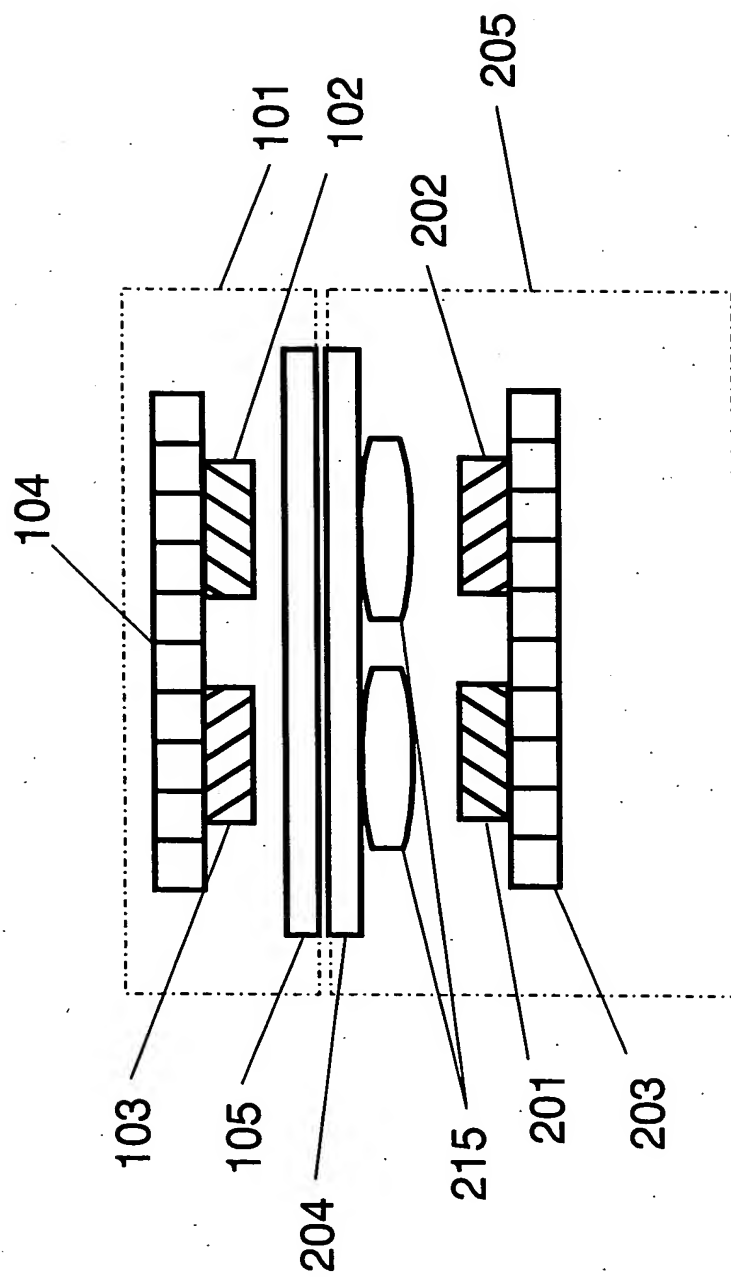
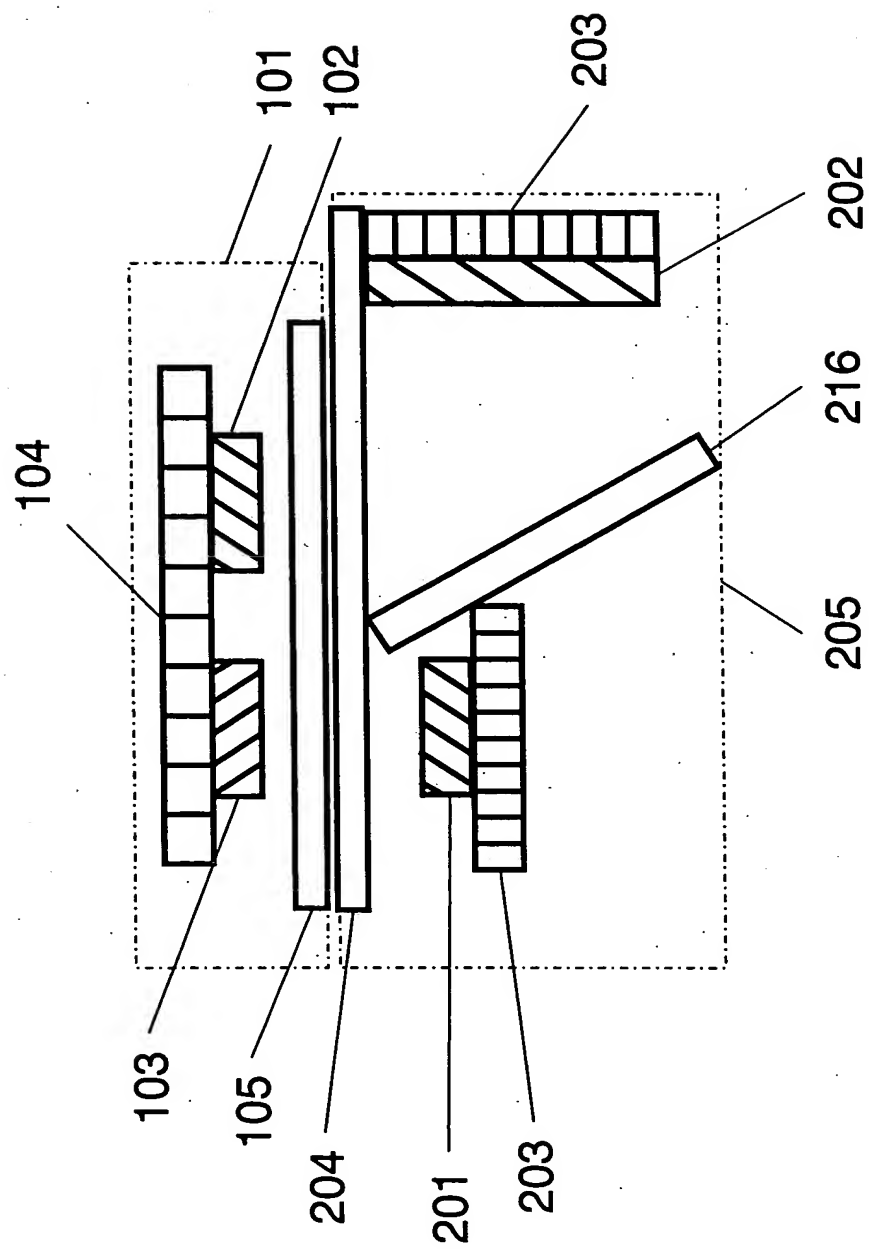


FIG. 10



**FIG. 11**

FIG. 12

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